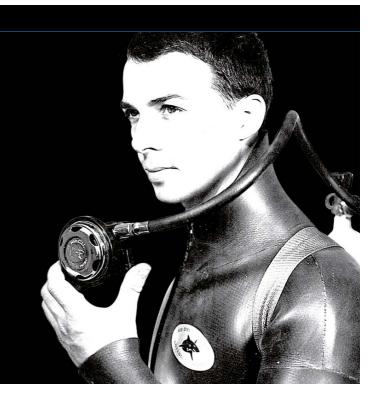


#### SI TECH – Inventor of modern drysuit diving

We all know about SCUBA pioneer Jacques Cousteau, but far less is known about the people who laid the foundations of modern drysuit diving. The recreational SCUBA diving boom in the sixties was mainly dependent on the expanded neoprene wetsuits.

Stig Insulán, a former Swedish mine-clearance diver and inventor, had a vision of something completely different in the late 1960's. He had designed a valve for high performance buoyancy control on a drysuit made from non-compressible material. Stig approached a rubber factory in Norway, that was already producing military drysuits made from rubber-coated fabric, with his design. The result was the first Variable Volume Drysuit, which conquered the world within a few years. Stig's inventions created the conditions for drysuit diving as we know it today. Ever since those days, our valves developed and refined to exceed current expectations and requirements!





#### The SI TECH advantage

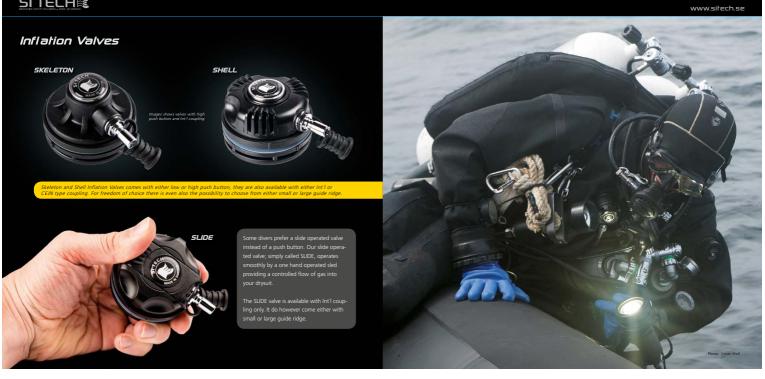
Our heritage of beeing pioneers within development of drysuit components for the most demanding envi-ronments makes us extremely competent in making products for all areas of diving. NASA knows this as well as other closed client communities. We are proud to produce components for returning customers relying on quality, performance and ser-vice. All components, no matter what business seg-ment they are targeted for, shares the same quality and beneficial values that all SI TECH products are notorious and branded for. A highly skilled and dedicaters divers and assembly staff ensures the performance, safety and comfort of our products.



#### Find, Learn, Evolve...



## CHAPTER 1 DRYSUIT VALVES & ACCESSORIES



#### An innovation that revolutionized drysuit diving

Before early 70's drysuits was mainly used in commercial and military diving activities. To avoid discomfort created by squeeze at greater depth, overpressure valves were installed in the ankles, wrists and neck in order to remove excessive air inflated through the face mask.

named constant volume drysuit. The wetsuit was a great improvement and started to be popular in the early 50's and drysuits in general became out aged.

1 Jack

Stig Insulán's invention of the variable volume drysuit valve opened up for a new era of underwater comfort. From extensive diving experience and expertise in regards to diving physiology a number of criterias was set up: 1.76

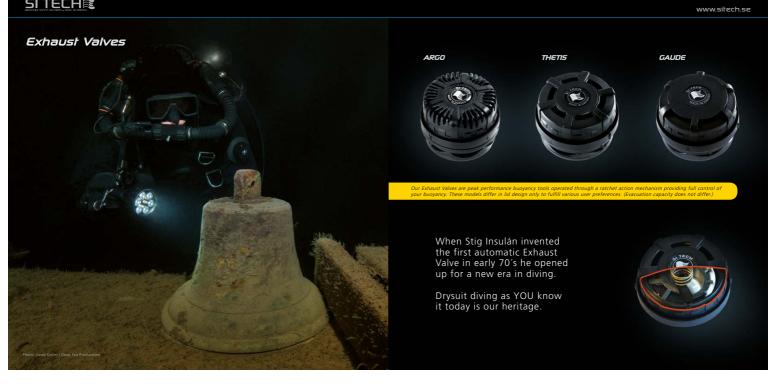
- maximum setting. 2. It must have feature for manual dumping of insulation
- gas with occupied hands.It must have a sensitive regulation of internal suit pressure.It must at a given setting maintain internal gas
- for buoyancy control. 5. It must maintain insulation and flotation gas for prolonged surface time.

- Fortionged surface time.
   Arrow of the second of the second seco

are tuned to evacuate the same amount of gas that SI TECH Inflation Valves are able to operating a SI TECH Inflation Valve ant flow of gas will pass the valve t distributed into your drysuit, pro-increased insulating properties and All SI TECH Exhaust Valves are extremely sensitive to changes in ambient pressure and provide the diver with a precision tool for peak performance buoyancy. A ratchet action adjustment lid provides full awareness when adjusting the setting. The filter lid on the inside of the drysuit is designed to work effectively with all common undergarments and provide optimized evacuation properties. or variations in gasflow can occur de-ling on what coupling and hose used.

SI TECH Exhaust Valves

provide.



## SI TECH 🕏

#### Valve options

All of our Inflation and Exhaust Valves are available in optional configurations depending on various user needs. This section will guide you through different options so that you will be able of finding the proper valve covering your need.

CEJN type, Small quide ride

VALVE PORTS



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INFLATION VALVES

4

BASIC RANGE

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Item no. 24780

Slide

Int'l, Larg

17.

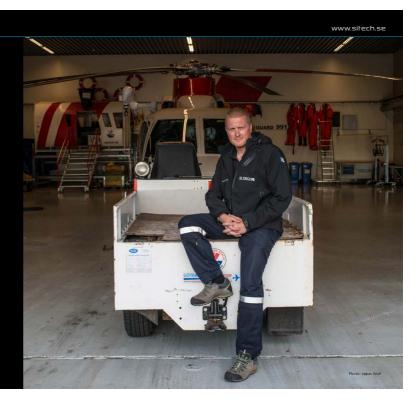
Hoses, Couplings and Adapters

#### When Safety is paramount

John Jonsson from Gotland, Sweden, is a professional rescue swimmer working onboard the rescue helicopters from the Swedish maritime administration. Everytime he enters the helicopter for a new mission he needs to be prepared for all options.

When not working, John is a dedicated wreck diver, diving with the exploration team Deep Sea Productions. The team is behind some of the most noted wreck finds in modern times. John knows what to rely on when it comes to functional safety equipment and has been diving SI TECH products for many years as he knows that they perform as they should for his profession and way of diving.





#### Facilitate your diving

Long hours of decompression often make you wish you were on surface and out of your drysuit. With a Pee Valve by SI TECH, these wishes somehow diminish and get replaced by a positive mind and planning for the next adventure!

#### SI TECH Pee Valves are reliable and easy to maintain

Pressure compensate

- Twin Check valves for safe evacuation an
- no outer leakage • On/Off function
- Easy to clean
- Disassembly to
- Valve port for fitting to suit include
- Connects with both uridomes and She-P providing comfort for both men and women



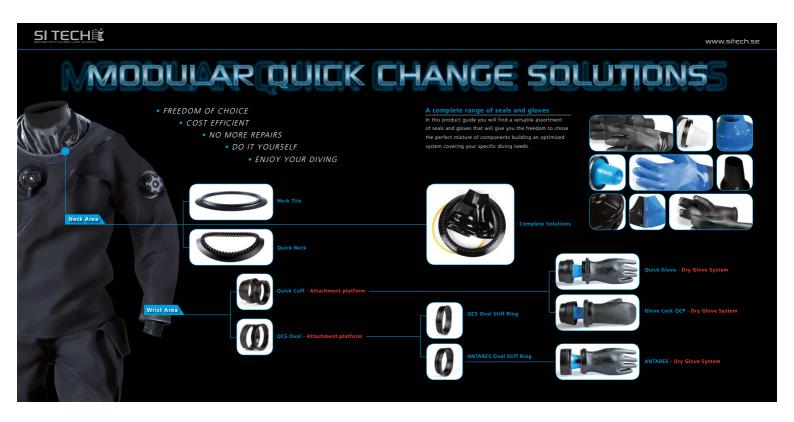
## SI TECH 🕏



Why miss the dive of your life just because of a broken seal?

www.sitech.se

With a Modular Quick Change Solution from SI TECH you can easily change a seal by yourself on spot at the dive site and get back into the water again with your buddies within minutes.



#### SITECH

#### Quick Neck

The Quick Neck is Flexible, Versatile and Comfortable! It allow users of protective drysuits to change a broken seal within minutes on spot at the site where and when the seal actually broke. No more costly or time consuming repairs! The Quick Neck evolved from its predecessor Neck Tite. The major difference is the extremely soft Quick Neck Ring. The flexibility of this ring provides the user with an extremely comfortable and ergonomic Quick Change Solution. It can be mounted in most drysuits and will work in conjunction with warm necks and similar. The Quick Neck can be glued or welded into position after correct measurements and preparations have been made.

Change of seal is made in minutes by using the Neck Ring Tool to force the Lock Ring and seal in place.

As with all Modular Quick Change Solutions by SI TECH, the Quick Neck System provides the user with the opportunity to chose from a variety of seals i different colours and sizes. See the basic range in the matrix below.

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Large 35-43

cm (13,8-16,9\*)

al Markenerge 22 Standard contraintenion toro and term to 60190 The Quick Neck system is not only targeted for recereational diving purposes. As with several other products developed by 51 TECH it can also be used by rescue services among others. Therefore we conduct a variety of tests to find the limits in our products. The Quick Neck System have proven itself to manage harsch conditions from a variety of environments

STRENGTH TEST: Load 15,5 kg pulled in seal (silicone seal) for more than 22 hours (exceeding EN standard test). IMPACT TEST: Performed carrying diving diysuits and rescue drysuits. Jump heights: 1 m, 3 m, 5 m and 10 m.

DIVING TEST: Performed in various conditions.



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Quick Neck

## Quick Cuff

Deck Cell with Sectors Deck C

An Oval Quick Change Solution designed for and used by divers, rescue services, kayakers, sail racers and others in need of Quick Change Solutions and mission critical adaptation for maximum comfort and performance. For both latex and silicone seals.

A Modular Quick Change Solution providing you with the opportunity of changing torn or broken seals within minutes, without tools or glue. It also enables you to connect the Dry Glove systems Glove Lock QCP and Quick Glove. For both latex and silicone seals.

Item no. 60422

All seals will break sooner or later. Remember that your life can depend on whether you have torn or fresh seals. The QCS Oval system benefits you with the opportunity to change torn or broken seals within minutes without the use of glue. IT IS OVAL & NARROW - SLIM & COMFORTABLE.

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To attach the ANTARES Dry Glove System - ensure you have the ANTARES Stiff Ring, Item no. 60260

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 Strukt with Silcone Seak
 Item no. 60916

 02021 - PL/Ring (2 pc) + 60250 - QCS Oval Stiff Ring (2 pc)
 10102 - Silcone Seak (standard) (2pc)

 1025 - Silcone Seak (standard) (2pc)
 10103 - Silcone Seak (1 pc)

 11373 - Tape (1 meter)
 17320 - Gaing Manual (1 pc) + 87510 - Uter Manual (1 pc)



#### Seals

SI TECH offer a great variety of seals for a diverse range of users and needs. As pioneers within drysuit diving we have been developing drysuit seals since early 70's. Our assortment of Silicone and Latex seals fulfill most needs and consist of; bottle neck as well as conical (tapered) seals, double dipped, reinforced, extended length, a variety of colours and more. Some seals are made for fixed attachment, others for use in Modular Quick Change Solutions.

SITECH SIIICUTE Seals - Brings maximum comforr to Modular Quick Change Solu

#### Silicone Seals



Available options	Neck Seal (Diack)	Neck Seal (blue)	Wrist Seal (black)	vvnst seal (blue)
Standard size	Neck Ø: 28-37 cm (11-14,5*) Item no. 61630			Wrist & 13-17 cm (5,2-6,9" ) Item no. 61025-8LU
Small size	Neck Ø: 22-30 cm (8,6-11,8*) Item no. 61631		Wrist Ø: 10,6-15 cm (4,2-5,9") Item no. 61026	

Latex Seals

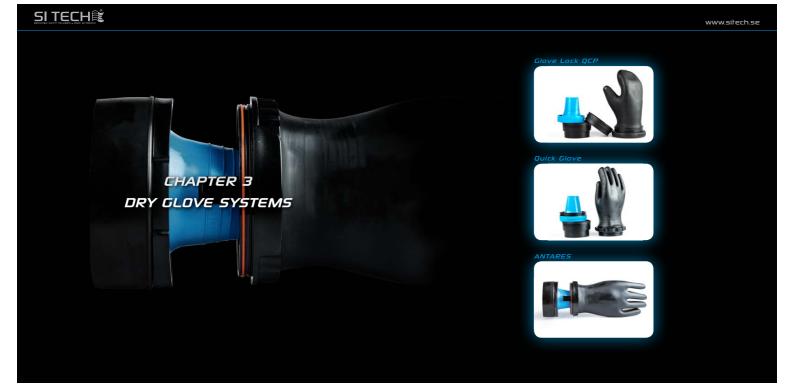
andard bottleneck seals available in a range of sizes.

Sizes	Standard bottleneck seal	Bottleneck seal with narrow back	
X-small	12,5-14 cm (4,9-5,5") Item no. 61150	12,5-14 cm (4,9-5,5") Item no. 61060	
Small	13,5-16 cm (5,3-6,3") Item no. 61130	13,5-16 cm (5,3-6,3") Item no. 61061	
Medium	15,5-18 cm (6,1-7,1") Item no. 61100	15,5-18 cm (6,1-7,1") Item no. 61062	
Large	18-21 cm (7,1-8,3*) Item no. 61090	18-21 cm (7,1-8,3*) Item no. 61063	

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The variety of seals presented in this brochure are the most common seals in our range.

> Check out the complete range of SI TECH seals at; www.sitech.se.





#### ANTARES





pdate from January 2014. Il ANTARES systems comes with a red upport Ring preventing the inner liner r part of the seal to interfere with the locking function of the system. this was an issue occuring on early

The ANTARES - A WWII wreck in the archipelago outside of Lysekil on the west coast of Sweden, but also the name of the first Dry Glove System based upon the Oval Ring Design by SI TECH!



The ANTARES Dry Glove System is part of the Modular Quick Change System and was developed as an extension to the QCS Oval attachment platform. It's narrow, comfortable and provides freedom of choice in regards to seals and gloves.



Variations The ANTARES Dry Glove System is available in a variety of configurations. For latest update or version please visit: www.sitech.se

The ANTARES Dry Glove System attaches to the QCS Oval attachment platform (QCS Oval with ANTARES Stiff Ring). Ensure this Stiff Ring is mounted in your QCS Oval system.





At about 8 pm on April 10, 1940 the sound of the propeller from the S/S Antares was heard onboard the british submarine HMS Sunfish. Shortly after two torpedoes was fired against the S/S ANTARES...

Read the full story at; http://www.sitech.se/





## Dry Glove Systems - Kit information

GLOVE LOCK QCP	Item no. 60520				
	<ul> <li>e0538 - Red Spanner Rings for ubtra thin gloves (2 p.o.) • e0537 - Green Spanner Rings for thin gloves (2 p.o.)</li> <li>e0536 - Red Spanner Rings for thick gloves (2 p.o.) • e0537 - Single Spanner Rings for attempt thick gloves (2 p.o.)</li> <li>e0537 - Single Origin (2 p.o.) • e0547 - Lines (2 p.o.) • e0557 - Single Spanner Rings for attempt to the p.o.)</li> <li>e0524 - Black Spanner Rings for us together with Quok CuH (2 p.o.) • Line manual (1 p.o.)</li> <li>e0524 - Black Spanner Rings for us together with Quok CuH (2 p.o.) • Line manual (1 p.o.)</li> </ul>				
QUICK GLOVE	ltem no. 60230				
Quick Glove	<ul> <li>60231 - Connecting Rings (2 pcs) = 60232 - Release Rings (2 pcs) = 80185 - O-rings (4 pcs) = 61357-20 - Paraffin Wax (1 pcs) = 60211 - Spanner Rings, black (2 pcs) = 60212 - Spanner Rings, black (2 pcs) = 60211 - Spanner Rings, black (2 pc</li></ul>				
QUICK GLOVE	Item no. 60940-K				
Quick Glove with Quick Clamp	46031- Conventing ling (D par) 46032 - Malena Ring D pci 4 46016- O engl (d pci) 4 45157-00 - Partite Wei (1 pci) 4 60311 - Sparrer Ring, bliek (D pci) 4 66211 - Sparrer Ring, bliek (D pci) 4 66311 - Quick Camp Doxing Ring (D pci) 4 60314 - Sparrer Ring, pilos (2 pci) 4 63314 - User manual (1 pci) 4 60314 - Sparrer Ring, pilos (2 pci) 4 63314 - User manual (1 pci) 4 63314 - Sparrer Ring, pilos (2 pci) 4 63314 - User manual (1 pci) 4 63314 - Sparrer Ring, pilos (2 pci) 4 6344 - Sparrer Ring, p				
QUICK CLAMP	Item no. 60930				
Quick Clamp	<ul> <li>60931 - Quick Clamp Docking Rings (2 pcs) = 60214 - Spanner Rings, yellow (2 pcs) = 60219 - Spanner Rings, green (2 pcs)</li> <li>60212 - Spanner Rings, blue (2 pcs) = 87514 - User manual (1 pcs)</li> </ul>				
ANTARES	Item no. 60600 include silicone seal (standard) Item no. 60600-5 include silicone seal (small) Item no. 60602 include latex seal (medium)				
Complete Dry Glove System	60251 - FU rings (2 pc) • 60269 - Onal Sett Rings (2 pc) • 60261 - Onal Glove Rings (2 pc) • 60263 - Onal Spanner Rings, blue (2 pc) • 60264 - Onal Spanner Rings, gene (2 pc) • 60569 - useb (3 pc) • 80173 - 8 min O-mmy, black (4 pc) • 80283 - thick O-mmy, mid (4 pc) • 60233 - Rings Ri				
ANTARES	ltem no. 60610				
Conversion components for owners of QCS Oval (newer version)	<ul> <li>4.6031 - Ander Glave Hang /B Scale (2633) - Geal Samerer Hangs, Natur Glave - Glave - Glaverer Hangs, green (2 pc.)</li> <li>4.6031 - Ander Glave Kale (2 not 4.6034) - Hand Graverer Hangs, Glaverer Hangs, green (2 pc.)</li> <li>4.60231 - Phrown Hand, Factor Hand, Glave B (2 not 1 - Hand Samerer Hangs)</li> <li>4.60231 - Phrown Hand, Factor Hand, Glave B (2 not 1 - Hand Samerer Hangs)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hangs)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hands)</li> <li>4.60231 - Phrown Hand, Glave B (2 not 1 - Hand Samerer Hand B (2 not 1 - Hand B (2</li></ul>				
ANTARES	Item no. 60620				
Conversion components for owners of QCS Oval (older version)	<ul> <li>4000-0. Ond Self Regist 2 pairs - 4001-1. One files place (a place)</li> <li>4001-0. Ond Self Regist 2 pairs - 4001-1. One files place (a place)</li> <li>4001-4. Ond Spanne Regist 2 pairs - 4001-1. Inter Orings, katel (k poir - 4000-4. Inter Orings, end (k poil - 4000-4. Inter Orings, end (k poil</li></ul>				

#### PVC Gloves

recreational as well as technical divers in cold waters.







#### Latex Gloves

Except for the reliability they also provide good insulation properties

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Dry Glove Liners









Thinsulate® liner for great comfort and insulation performance.
Narrow elastic sleeve (washable).





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STREAM

Fleece line Size Item no. One size 60399





przedstawiciel i dystrybutor: Scuba Mission Rafał Kowalewski ul. Mazurska 7 70-424 Szczecin, Poland tel./fax + 48 91 488 17 87 www.scubamission.pl info@scubamission.pl